Application No.: 09/806,842 Docket No.: 220002065000

AMENDMENTS TO THE CLAIMS

1-15. (cancelled)

16. (currently amended): A method for identifying an inhibitor of NACP/ α -synuclein aggregation comprising:

providing a test compound, a first sample and a second sample, wherein each sample comprises NACP/a-synuclein;

inducing NACP/a-synuclein aggregation in the first sample and second sample by subjecting them to a metal ion an iron-catalyzed oxidative condition, comprising an amount of ferric ion or ferrous ion and hydrogen peroxide effective to aggregate NACP/a-synuclein;

exposing the first sample to the test compound;

measuring an aggregation level of NACP/ α -synuclein in the first sample and the second sample; and

comparing the aggregation level of NACP/ α -synuclein in the first sample and with the aggregation level of the second sample, wherein less aggregation in the first sample is indicative that the test compound is an inhibitor of NACP/ α -synuclein aggregation.

17. (currently amended): The method of claim 16, wherein the aggregation inhibitor test compound comprises a non-amyleidogenio protein that inhibits aggregation of NACP/α-synuclein β-synuclein.

18-20. (canceled)

- 21. (previously presented): The method of claim 16, wherein the first sample comprises cells that express NACP/α-synuclein.
 - 22. (previously presented): The method of claim 21, wherein the cells are neuronal cells.
- 23. (currently amended): The method of claim 22, wherein the neuronal cells comprise [[cell]] cells of the substantia nigra region of the brain.

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- 24. (currently amended): The method of claim 16, wherein the metal ion iron-catalyzed oxidative condition comprises comprises ron ions ferric iron.
- 25. (currently amended): The method of claim 24, wherein the iron [[ions]] jon catalyzed oxidative condition comprises comprise a ferric ion or a ferrous iron and hydrogen peroxide.
 - 26. (canceled)
- 27. (previously presented): The method of claim 16, wherein the first and the second sample are derived from the same source.
- 28. (previously presented): The method of claim 16, wherein the NACP/α-synuclein comprises a human recombinant NACP/α-synuclein.

29-39. (canceled)